







# Fenix LR50R Flashlight

## Technical Parameters

ANSI/ PLATO FL1	General Mode						Functional Mode		
	Turbo	High II	High I	Med	Low	Eco	Turbo	Strobe	SOS
 Output	12000 lumens	6000 lumens	3000 lumens	1000 lumens	350 lumens	50 lumens	12000 lumens	6000 lumens	350 lumens
 Runtime	1hour 50 minutes*	2hours 20 minutes*	2hours 40 minutes	7hours 40 minutes	24hours	58hours	1hour 50 minutes*	/	/
 Distance	950 meters	690 meters	480 meters	280 meters	165 meters	70 meters	950 meters	/	/
 Intensity	225750 candela	118400 candela	58200 candela	19800 candela	6850 candela	1200 candela	225750 candela	/	/
 Impact Resistance	1meter								
 Submersible	IP68								

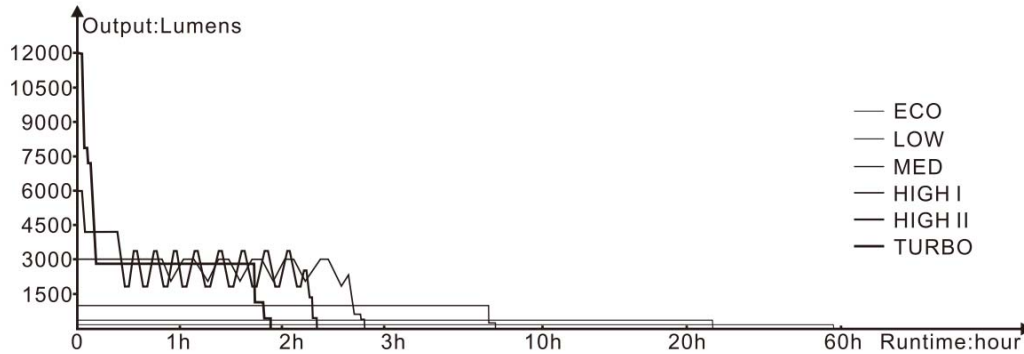
Note: The above specifications are from the results produced by Fenix through its laboratory testing using the Fenix ARB-L52-16000 rechargeable battery pack, under the temperature of 21±3°C and humidity of 50% - 80%. The true performance of this product may vary according to different working environments and the actual battery used.

\*The Turbo, High II output are measured in total of runtime including output at reduced levels due to temperature or protection mechanism in the design.

\* The Turbo output will be 6000 lumens and the Strobe will be 3000 lumens when uses 21700

battery due to the limited battery power.

## Runtime Graphics



## Product Features

- 12000 lumens maximum output; 950 lumens maximum beam distance.
- 4 Luminus SST70 LED's with a lifespan of 50,000 hours.
- Included a 3.6V/16000 mAh rechargeable Li-ion battery pack; compatible with 1-4 21700 Li-ion battery.
- Intelligent brightness downshifting sensor to avoid high temperature at close-range lighting.
- Instant Turbo activation rapidly responds to emergency situations.
- USB Type-C charging and discharging interface, supports PD3.0/PD2.0, QC3.0/QC2.0 fast-charging protocols.
- Battery level indication for instant checking of remaining battery level.
- Made of durable A6061-T6 aluminum.
- Premium type HAIII hard-anodized anti-abrasive finish.
- Size: 6.42" x 3.46" x 2.36" / 163 x 88 x 60 mm.
- Weight: 34.8 oz / 986 g (including battery)

## Operating Instruction

### Switches

The right switch is the main switch for on/off and output selection on general mode.

The left switch is the auxiliary switch for on/off and output selection on functional mode.

### **On/off**

Press and hold either of the switches for 0.5 seconds to turn on/off the light.

### **Mode switching**

In general mode, single click the auxiliary (left) switch to enter turbo on functional mode.

In functional mode, single click the main (right) switch to enter the previously used output on general mode,

### **Output Selection**

In general mode, single click the main (right) switch to cycle through Eco→Low→Med→High I  
→HighII→Turbo.

In functional mode, single click the auxiliary (left) switch to cycle through Turbo→Strobe→SOS.

### **Lockout Function**

**Lock:** With the the light switched off and unlocked, simultaneously press the two switches for 3 seconds, the light will blink 2 times on Eco to indicate locked status.

**Unlock:** With the light locked, simultaneously press the two switches for 3 seconds, the light will be activated on Eco.

\* In locked status, clicking or pressing the switches will activate 2 one-second blinks to indicate locked status.

### **Instant Turbo / Strobe / SOS**

With the light switched off, press and hold the auxiliary (left) switch for 0.5 seconds to enter instant turbo, single click the auxiliary once again to enter strobe and then SOS.

### **Intelligent Memory Circuit**

In general mode, the light memorizes the last selected output. When turned on again the

previously used output of general mode will be recalled.

In functional mode, the light will be activated on Turbo each time it is turned on, for emergency situations.

\* The light does not have memory function if 21700 battery is used.

## Battery Specifications

Type	Dimension	Nominal Voltage	Usability	
Li-ion battery pack	Fenix ARB-L52-16000	3.6V	Recommended	✓✓
Rechargeable battery (Li-ion)	21700 *	3.6V	Usable	✓
Rechargeable battery (Li-ion)	18650	3.6V	Banned	×
Non-rechargeable battery (Li-ion)	CR123A	3.0V	Banned	×

\* Warning: 21700 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Only use quality batteries with circuit protection will reduce the potential for combustion or explosion; but cell damage or short circuiting are potential risks the user assumes.

## Battery Replacement

Unscrew the light body to insert the battery with the anode side (+) towards the light head, then screw the light body back on.

## Charging

1. First switch off the light and plug the USB A socket of the charging cable into an electrical outlet, then connect the USB Type-C socket of the charging cable to the light.
2. When charging, the charging indicators will flash from left to right to display charging status. The

four indicators will be constant-on after charging is complete.

3. Be sure to close the anti-dust cover once charging is completed.

## **Power Bank Function**

1. Switch off the light and plug the USB Type-C socket of the charging cable into the light, then connect the another USB Type-C socket of the charging cable to the digital device with an USB Type-C port.

2. Single click either of the switches to begin discharging, the indicators will recede from right to left to display the status.

3. Be sure to close the anti-dust cover once charging is completed.

Note:

1. Only Eco output level is available when charging and discharging.

2. The USB Type-C port in the neck combines charging and discharging function.

3. The light and the included charging cable support PD3.0/PD2.0, QC3.0/QC2.0 fast charging protocols, the external adapter will be auto-detected if it supports the mentioned fast-charging protocols, if it does then 4.0A charging current will be selected, or 2.5A charging current will be selected.

4. Recharge a stored light every four months to maintain optimum performance of the battery.

## **Battery Level Indication**

With the light switched off, single click either switch to check the battery status, which will last for 3 seconds.

Four blue lights on: 100% - 80%

Three blue lights on: 80% - 60%

Two blue lights on: 60% - 40%

One blue light on: 40% - 20%

One blue light flashes: 20% - 0

Note: This only works with the included Fenix ARB-L52-16000 battery pack.

## **Intelligent Brightness Downshifting Sensor**

The flashlight has a built-in intelligent sensing circuit. When the light surface is close to the lighting object (about 60mm) for more than 1.5 seconds, the flashlight will automatically downshift the output level to Eco to avoid danger caused by high temperature. When the light surface is more than 0.8 seconds away from the lighting object, the flashlight automatically recalls the previously used output level.

\*As objects of different materials and colors reflect differently to light, there will be slight deviations in the sensing distance.

## **Intelligent Protection**

### **Time-limited downshift**

With the light switched on, if Turbo is being selected for over 20 seconds, the light will downshift until to 8000 lumens within 60 seconds.

With the light switched on, if High II is being selected for over 60 seconds, the light will downshift until to 4000 lumens within 60 seconds.

Note: The abovementioned functions are specially designed for avoiding discomfort and danger caused by overheating.

### **Overheat Protection**

The light will accumulate a lot of heat when used on High I, High II or Turbo output level for extended periods. When the light reaches a temperature of 60°C or above, the light will automatically step down a few lumens to reduce the temperature. When the temperature drops below 60°C, it will then allow the user for the reselection of those modes.

### **Low-voltage Warning**

When the voltage level drops below the preset level, the flashlight is programmed to downshift to a lower brightness level until Eco output is reached. When this happens in Eco output mode, the battery level indicator blinks to remind you to timely recharge or replace the battery.

Note: This only works with the included Fenix ARB-L52-16000 battery pack.

## Usage and Maintenance

- Disassembling the sealed head can cause damage to the light and will void the warranty.
- Fenix recommends using an excellent quality battery.
- If the light will not be used for an extended period, remove the battery, or the light could be damaged by electrolyte leakage.
- Lock the light or take out the battery to prevent accidental activation during storage or transportation. Recharge a stored battery every four months to maintain optimal battery performance.
- Long-term use can result in O-ring wear. To maintain a proper water seal, replace the ring with an approved spare.
- Periodic cleaning of the battery contacts improves the light's performance as dirty contacts may cause the light to flicker, shine intermittently or even fail to illuminate for the following reasons:

A: The battery needs replacing.

Solution: Replace battery (Ensure battery is inserted according to the manufacturer's specifications).

B: The threads, PCB board contact or other contacts are dirty.

Solution: Clean the contact points with a cotton swab soaked in rubbing alcohol.

If the above methods don't work, please contact your authorized distributor.

## Included

Fenix LR50R flashlight, ARB-L52-16000 Li-ion battery pack, USB Type-C charging cable, Lanyard, Holster, Shoulder strap, Spare O-ring, User manual, Warranty card

## Warning

- This flashlight is a high-intensity lighting device capable of causing eye damage to the user or others. Avoid shining the flashlight directly into anyone's eyes.
- This flashlight will accumulate a lot of heat when used for extended periods, resulting in high temperature of the flashlight shell. Pay attention to safe use to avoid scalding.

- All information provided in this manual is subject to change without prior notice.